

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : YAMAHA MOTOR CO LTD

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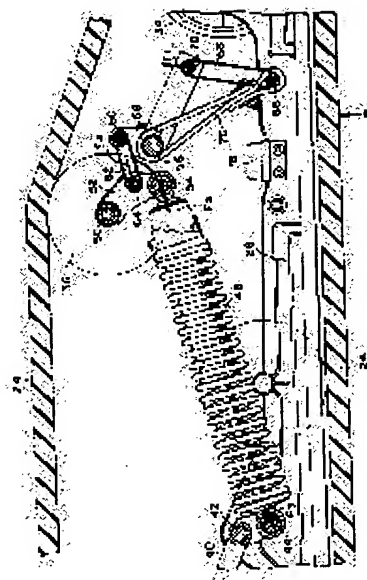
(72)Inventor : TAMURA JOJI

## (54) SLIDE-RAIL SUSPENDING APPARATUS OF SNOWMOBILE

### (57)Abstract:

PURPOSE: To improve cushioning faculty by increasing the suspension stroke at the slide rail rear part.

CONSTITUTION: When a ground repulsive force acts onto a caterpillar 24, said force is transmitted as F1 to the third link 68, and transmitted to one end of the second lever 58, and a repulsive moment is generated around the fourth fulcrum 56. The repulsive moment is opposed by the axial tension F2 of the second link 62, but as the lever ratio of the connection point is small, the axial tension F2 is amplified. The axial tension F2 having been amplified acts onto the first link 52 and generates repulsive moment around the third fulcrum 50. The repulsive moment is opposed by the spring force F3 of the compression spring 46 connected with the top end part of the first link 52. As the lever ratio at the connection point of the compression spring is larger than that of the connection point of the second link 62, the repulsive moment has reduced-value than F3 which acts onto the spring 46.



## LEGAL STATUS

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